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NEWS 25 APR 28 CAS patent authority coverage expanded
NEWS 26 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 27 APR 28 Limits doubled for structure searching in CAS REGISTRY
NEWS 28 MAY 08 STN Express, Version 8.4, now available
NEWS 29 MAY 11 STN on the Web enhanced
NEWS 30 MAY 11 BEILSTEIN substance information now available on STN Easy
NEWS 31 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
NEWS 32 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
NEWS 33 MAY 28 CAS databases on STN enhanced with NANO super role in records back to 1992

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FILE LAST UPDATED: 29 May 2009 (20090529/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

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=> s ((common light chain) and (phage library))
450491 COMMON
124 COMMONS
450604 COMMON
(COMMON OR COMMONS)
1283619 LIGHT
11895 LIGHTS
1287663 LIGHT
(LIGHT OR LIGHTS)
818731 CHAIN
347111 CHAINS
1023552 CHAIN

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            (CHAIN OR CHAINS)
          15 COMMON LIGHT CHAIN
            (COMMON(W)LIGHT(W)CHAIN)
       53676 PHAGE
        8688 PHAGES
       55539 PHAGE
            (PHAGE OR PHAGES)
       94243 LIBRARY
       34013 LIBRARIES
      111289 LIBRARY
            (LIBRARY OR LIBRARIES)
        1468 PHAGE LIBRARY
            (PHAGE(W)LIBRARY)
L1         2 ((COMMON LIGHT CHAIN) AND (PHAGE LIBRARY))

=> d L1 bib abs 1-2

L1   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2004:634081  CAPLUS
DN   141:156119
TI   Screening antibody common light chains using
     phage display libraries
IN   Kojima, Tetsuo
PA   Chugai Seiyaku Kabushiki Kaisha, Japan
SO   PCT Int. Appl., 28 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.         KIND   DATE        APPLICATION NO.      DATE
     ---------------    ----   --------    -------------------  --------
PI   WO 2004065611      A1     20040805    WO 2004-JP496        20040121
        W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ
     EP 1605058         A1     20051214    EP 2004-703920       20040121
     EP 1605058         B1     20090513
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     AT 431423          T      20090515    AT 2004-703920       20040121
     US 20060159673     A1     20060720    US 2005-542839       20051213
PRAI JP 2003-12648      A      20030121
     WO 2004-JP496      W      20040121
AB   A method of screening a common light chain
     which comprises the steps of: (a) producing a host secreting the heavy
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chain of an antibody binding to a desired antigen; (b) transferring an antibody light chain library into the host of the step (a) and thus producing libraries presenting antibodies consisting of the above heavy chain and the above light chain; (c) selecting a library presenting an antibody binding specifically to the desired antigen as described in the step (a); (d) transferring the library selected in the step (c) into a host secreting the heavy chain of an antibody binding to a desired antigen, which is different from the antigen of the step (a), and thus producing libraries presenting antibodies consisting of the heavy chain and the light chain; and (e) selecting a library presenting an antibody binding specifically to the desired antigen as described in the step (d). The method allows for the enhanced formation of the desired heteromultimer relative to undesired heteromultimers and homomultimers.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1998:425553 CAPLUS

DN 129:160425

OREF 129:32645a,32648a

TI An efficient route to human bispecific IgG

AU Merchang, A. Margaret; Zhu, Zhenping; Yuan, Jean Q.; Goddard, Audrey; Adams, Camellia W.; Presta, Leonard G.; Carter, Paul

CS Departments of Molecular Oncology, Molecular Biology, Antibody Technologies, and Immunology, Genentech Inc., South San Francisco, CA, 94080, USA

SO Nature Biotechnology (1998), 16(7), 677-682
CODEN: NABIF9; ISSN: 1087-0156

PB Nature America

DT Journal

LA English

AB Prodn. of bispecific IgG (BsIgG) by coexpressing two different antibodies is inefficient due to unwanted pairings of the component heavy and light chains. To overcome this problem, heavy chains were remodeled for heterodimerization using engineered disulfide bonds in combination with previously identified "knobs-into-holes" mutations. One of the variants, S354C:T366W/Y349'C:T366'S:L368"A:Y407'V, gave near quant. (.apprx.95%) heterodimerization. Light chain mispairing was circumvented by using an identical light chain for each arm of the BsIgG. Antibodies with identical light chains that bind to different antigens were identified from an scFv phage library with a very restricted light chain repertoire for the majority (50/55) of antigen pairs tested. A BsIgG capable of simultaneously binding to the human receptors HER3 and cMpl was prepd. by coexpressing the common light chain and corresponding remodeled heavy chains followed by protein

A chromatog. The engineered heavy chains retain their ability to support antibody-dependent cell-mediated cytotoxicity as demonstrated with an anti-HER2 antibody.

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD

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